

Appl. No. : 09/976,667
Filed : October 10, 2001

AMENDMENTS TO THE CLAIMS

Please cancel Claims 1-9, 13-22, and 25-26 without prejudice and amend Claims 10, 23, and 24 as follows:

1-9 (Canceled)

10. (Currently amended) The method of Claim 23 + further comprising the step of isolating at least one phage from the replicated population of phage.

11. (Original) The method of Claim 10, further comprising the step of incorporating the phage into a pharmaceutical product.

12. (Original) The method of Claim 10, further comprising the step of incorporating the phage into a diagnostic kit.

13-22 (Canceled)

23. (Currently amended) A method of detecting electrophoretically separated biomolecules comprising the steps of:

(a) obtaining a solid matrix having disposed thereon a plurality of electrophoretically separated biomolecules;

(b) contacting the solid matrix with a collection of phage, wherein individual phage in the collection have a phage-expressed binding protein so that the collection of phage in aggregate comprises a collection of phage-expressed binding proteins, and wherein contact of the solid matrix and the collection of phage results in a non-bound population of phage and a bound population of phage;

(c) removing the non-bound population of phage to leave the bound population of phage localized to positions on the solid matrix corresponding to positions of the electrophoretically separated biomolecules;

(d) replicate plating by placing the bound population of phage in contact with a bacterial lawn having host bacteria for the phage ~~together with a host for the phage~~ under conditions that permit the bound phage to infect the host bacteria so as to produce a replicated population of phage; and

(e) detecting the replicated population of phage, whereby electrophoretically separated biomolecules are detected.

Appl. No. : 09/976,667
Filed : October 10, 2001

24. (Currently amended) The method of Claim 23, wherein the A-biomolecular complex comprising:

~~a target biomolecule;~~

~~a phage having a phage-expressed binding protein has that can bind to the target biomolecule or having~~ joined thereto a linked or un-linked protein or nucleic acid that can bind to ~~a~~ the target biomolecule, wherein ~~the phage-expressed binding protein or the~~ linked or unlinked protein or nucleic acid is bound to the target biomolecule to provide a bound phage; and

~~a host bacterial cell that is a host for the phage, under conditions that permit the bound phage to infect the host.~~

25-26 (Canceled)